



## MATERIAL SAFETY DATA SHEET

This document was prepared in accordance with the (US) Hazard Communication Standard (29 CFR 1910.1200) *Revision Date September 4 2023 Version 1.4*

### Section 1: Product Identification

#### 1.1 Product Identifiers

*Product Name* oYo-Link® mlgG1 Thiol  
*Product Catalog #* AT3001-mlgG1

#### 1.2 International Product Classification Harmonized Code (HS Code)

*Harmonized Tariff Number* 382219

Diagnostic or laboratory reagents on a backing, prepared diagnostic or laboratory reagents whether or not on a backing, whether or not put up in the form of kits (excl. for malaria, for Zika and other diseases transmitted by mosquitoes of the genus Aedes, for blood-grouping, and goods of 3006)

#### 1.3 Recommended use of the chemical and restrictions on use

*Identified uses:* Laboratory chemicals, Synthesis of substances  
For research purposes only. Not permitted or validated for use in humans.

#### 1.4 Supplier Details

*Company* AlphaThera, Inc.  
  
*Address* 3401 Grays Ferry Avenue  
Building 250  
Philadelphia, PA 19146-2701  
  
*Email* [support@alphathera.com](mailto:support@alphathera.com)

#### 1.5 Emergency phone number & contact

In the event of a chemical emergency, please dial 911 in the US or your country's emergency telephone number.

## Section 2: Hazard(s) Identification

### **GHS Classification**

Not a hazardous substance or mixture

### **OSHA (US) Hazards**

Not a hazardous substance or mixture

### **Other hazards**

None known. oYo-Link mIgG1 Thiol is a small adaptor protein that is engineered to contain the photoreactive non-natural amino acid benzoyl-phenylalanine. The production of oYo-Link mIgG1 Thiol does not involve the use of starting materials classified as hazardous substances.

## Section 3: Composition/Information on Ingredients:

Component	CAS-No.	EC-No.	Weight %
oYo-Link mIgG1 Thiol	-	-	100

## Section 4: First Aid Measures

### **Description of first-aid measures**

#### *If inhaled*

After inhalation, get fresh air. Consult a physician if feeling unwell.

#### *Skin contact*

In case of skin contact, remove contaminated clothing and wash skin with soap and water.

#### *Eye contact*

In case of eye contact, flush eyes with water. Remove contact lenses.

#### *Ingestion*

If swallowed, drink water (two glasses at most). Consult a physician if feeling unwell.

### **Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

No information available.

**Section 5: Firefighting Measures****Extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special hazards arising from the substance or mixture**

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No information available

**Section 6: Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Avoid dust formation. Avoid inhalation. Use personal protective equipment. Avoid substance contact.

Advice for emergency responders: Protective equipment see section 8.

**Environmental precautions**

No special environmental precautions required.

**Methods and materials for containment and cleaning up**

Clean up with damp cloth. Dispose of contaminated materials following applicable regulations.

**Section 7: Handling and Storage****Instructions for Safe Handling**

Avoid formation of dust and aerosols. This product should be handled only by those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.

**Conditions for Safe Storage**

Keep container tightly closed at 4°C for short-term durations (<1 week) and -20° to -80°C for longer time-spans.

## Section 8: Exposure Controls/Personal Protection

### **Exposure limit(s)**

Contains no substances with occupational exposure limit values.

### **Engineering measures**

Ensure adequate ventilation.

### **Individual protection measures**

*Hygiene measures:* Follow general industrial hygiene practice. Wash hands before work breaks and at the end of workday.

*Eye/face protection:* Wear safety glasses tested and approved by local authorities.

*Hand protection:* Chemical-resistant, impervious gloves.

*Other protective equipment:* Lightweight, protective clothing.

*Respiratory protection:* None under normal use conditions.

## Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Clear
Odor:	No strong odor known.
Odor Threshold:	No information available.
pH:	No information available.
Melting point :	No information available.
Boiling point:	No information available.
Flash point:	No information available.
Evaporation rate:	No information available.
Flammability (solid, gas):	No information available.
Lower explosion limit:	No information available.
Upper explosion limit	No information available.
Vapor pressure:	No information available.
Relative vapor density:	No information available.
Relative density:	No information available.
Water solubility:	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity, dynamic:	No information available.
Explosive properties:	No information available.

## Section 10: Stability and Reactivity

### *Reactivity*

No data available

### *Chemical stability*

Stable under recommended storage conditions.

### *Possibility of hazardous reactions*

No information available.

### *Conditions to avoid*

Excessive heating. Microbial contamination.

### *Incompatible materials*

Strong acids. Strong oxidizing agents.

### *Hazardous decomposition products*

Under normal conditions, no data available.

In the event of fire, oxides of phosphorus, hydrogen chloride gas, potassium oxides, sodium oxides. See Section 5.

## Section 11: Toxicological Information

### **Information on toxicological effects**

#### *Acute toxicity*

Component	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
oYo-Link mlgG1 Thiol	No data available	No data available	No data available

#### *Skin corrosion/irritation*

May cause skin irritation in susceptible persons

#### *Serious eye damage/eye irritation*

May be irritating to eyes

#### *Respiratory or skin sensitization*

No data available

#### *Specific target organ systemic toxicity - single exposure*

No data available

*Specific target organ systemic toxicity - repeated exposure*

No data available

*Aspiration hazard*

No data available

*Germ cell mutagenicity*

Component	Animal testing	Ames test	OECD Test Guideline 475
oYo-Link mlgG1 Thiol	No data available	No data available	No data available

*Carcinogenicity*

*IARC* - No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

*NTP*: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

*OSHA*: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

*ACGIH*: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

*Reproductive toxicity*

No data available.

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practices.

## Section 12: Ecological Information:

### *Ecotoxicity*

No data available

### *Persistence and degradability*

No data available.

### *Bioaccumulative potential*

No data available.

### *Mobility in soil*

No data available.

## Section 13: Disposal Considerations

The information presented in this document only applies to the material as supplied. The hazard identification of this product based on characteristics or listings within this document may not apply if the material has been used or otherwise contaminated.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14: Transport Information

### **Land transport (DOT)**

Not classified as dangerous in the meaning of transport regulations.

### **Air transport (IATA)**

Not classified as dangerous in the meaning of transport regulations.

### **Sea transport (IMDG)**

Not classified as dangerous in the meaning of transport regulations.

## Section 15: Regulatory Information

### *SARA 302*

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### *SARA 313*

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

*SARA 311/312 Hazards*  
No SARA Hazards

## Section 16: Other Information

**Training advice:** Please read the product instruction manual before use and adequately train all end-users

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